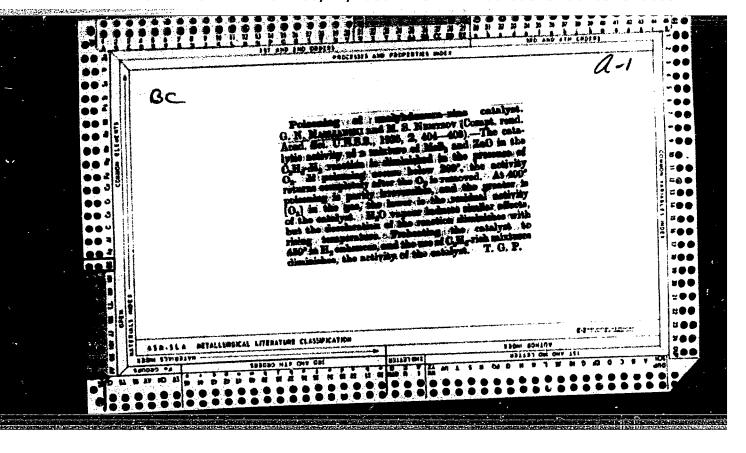
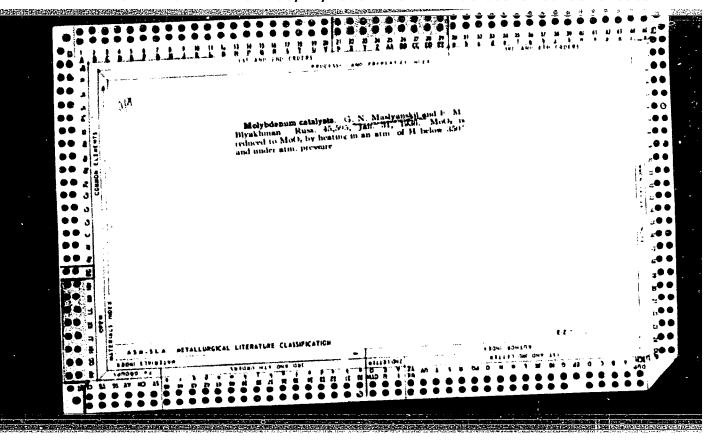
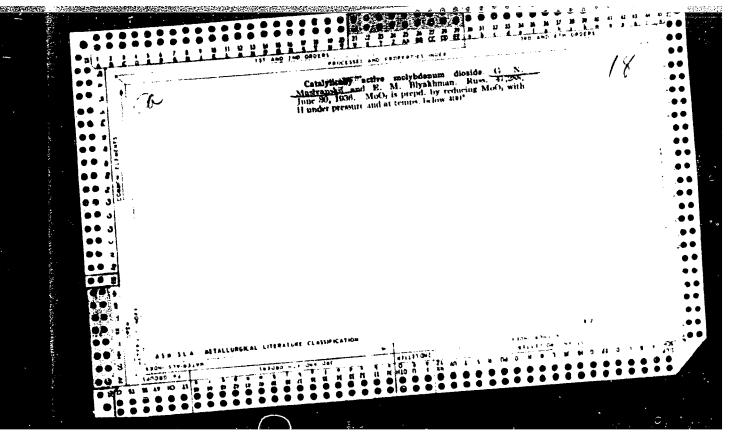
VOLCHANSKAYA, Ye.A., red.; MASLYANSKIY, G.N., red.; PUKHAL'SKIY, G.V., red.; KHVOROSTANSKAYA, Ye.M., red.; VOLKOV, M.I., prof., retsenzent; REZNICHENKO, I.Ye., red.

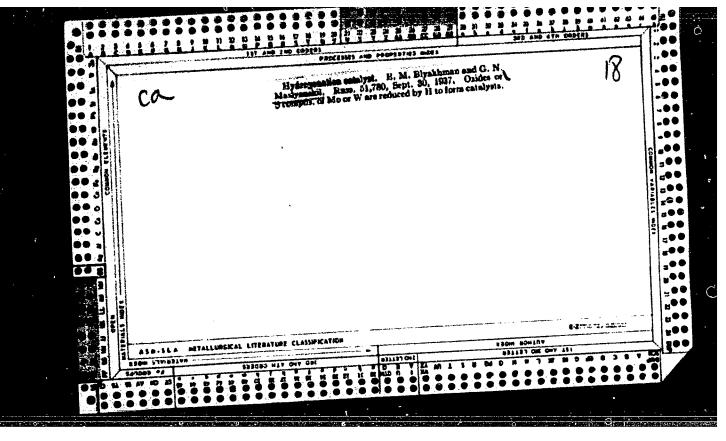
[Metallurgical slag in the construction industry] Metallurgicheskie shlaki v stroitel'stve. Kiev, Gosstroiizdat USSR, 1964. 235 p. (MIRA 17:5)

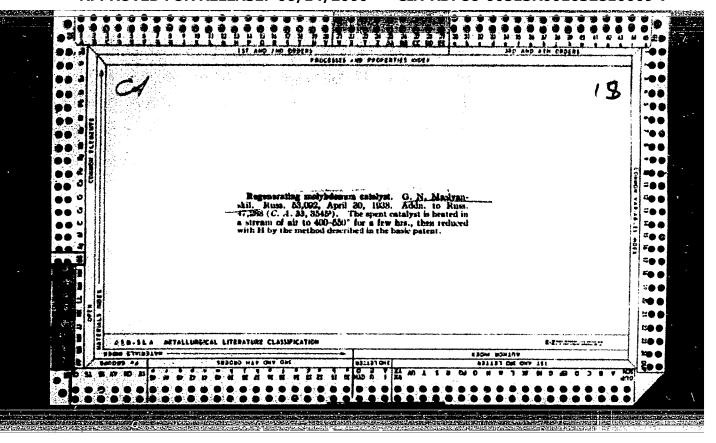
1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

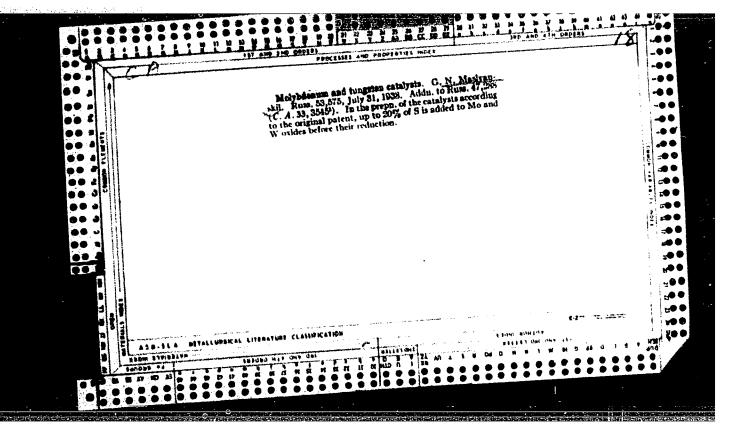








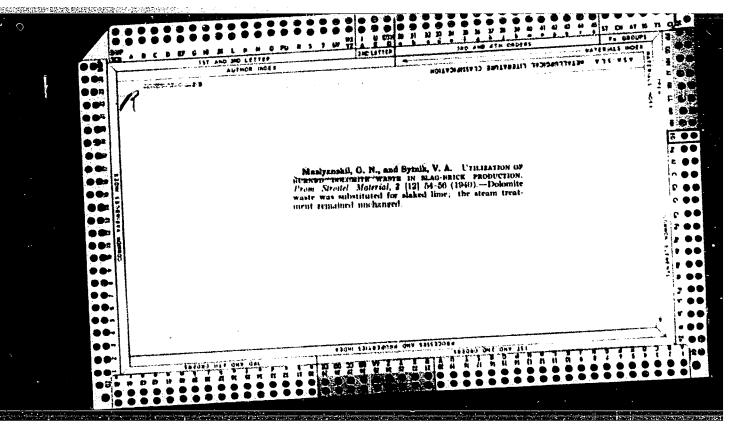


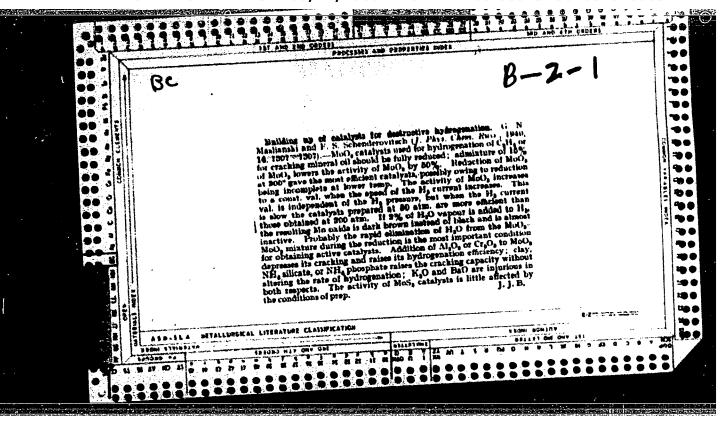


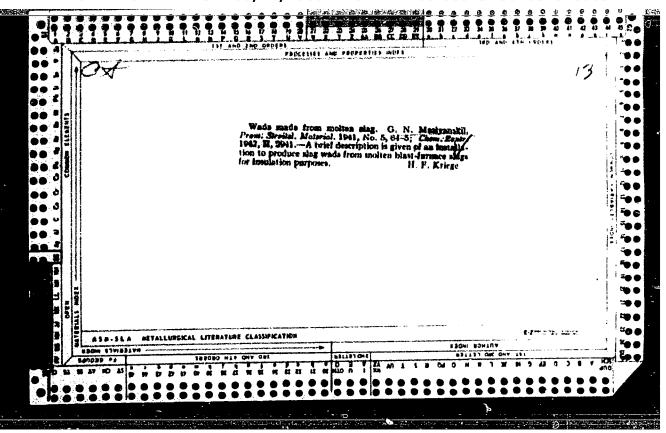
Maslyanskii, G. N.

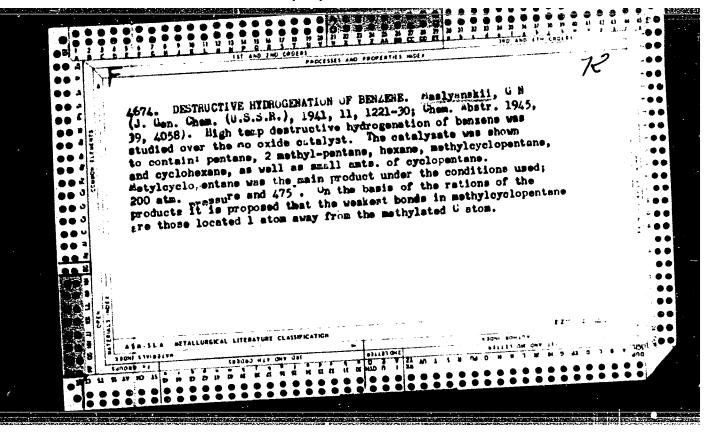
Steam treatment of slag brick. G. N. Maslyanskii and V. A. Sytnik. Prom. Stroitel. Material. 2, No. 10-11, 95-9(1940).

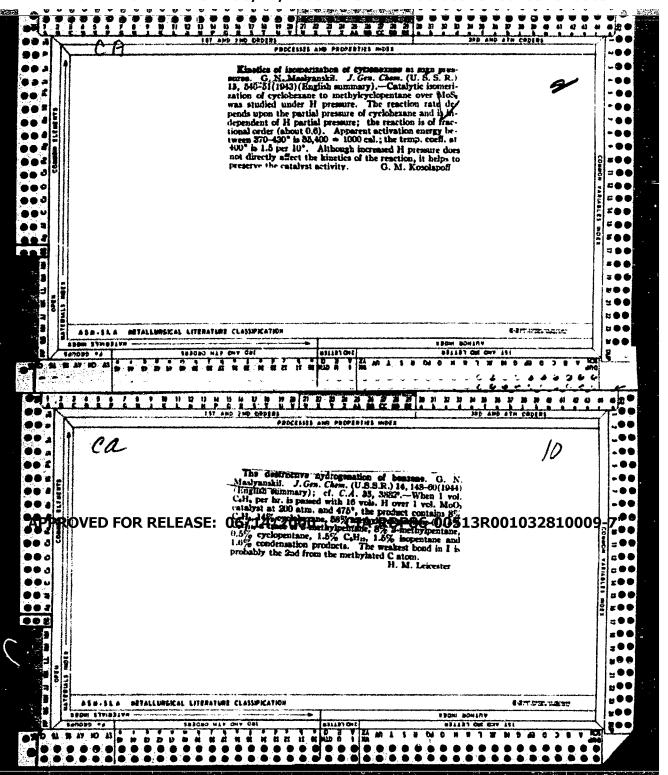
E. E. Stefanowsky

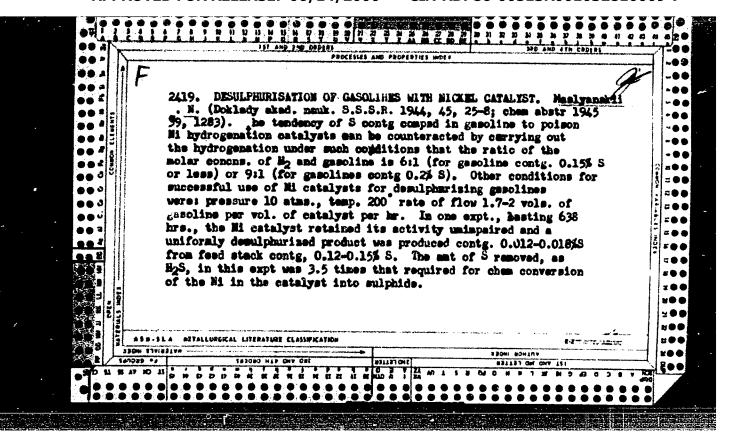


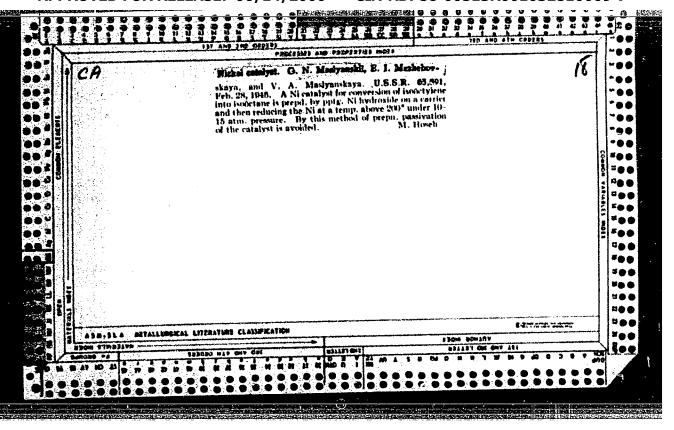


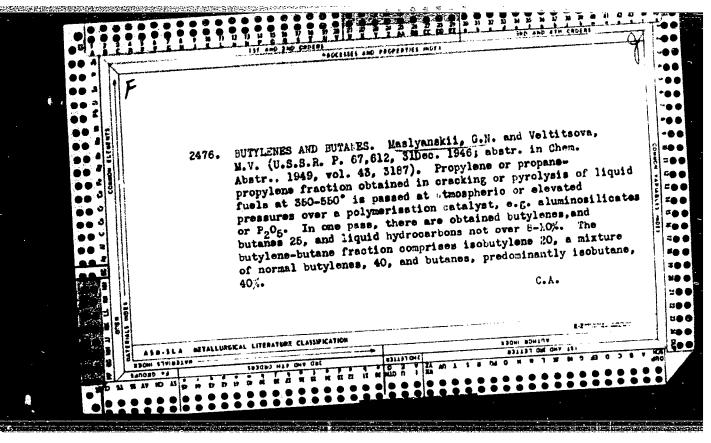


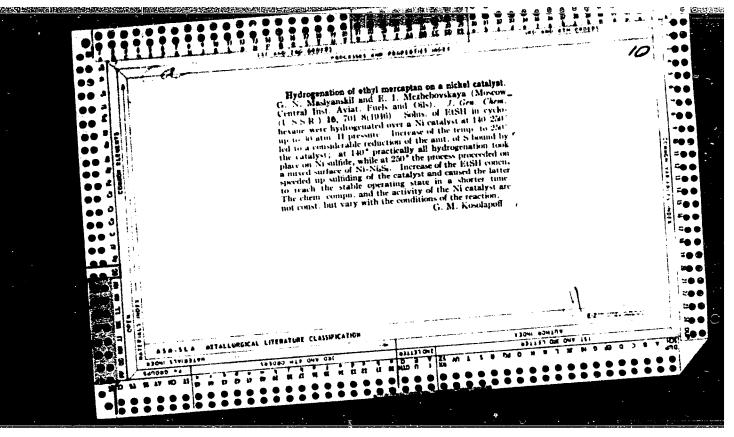


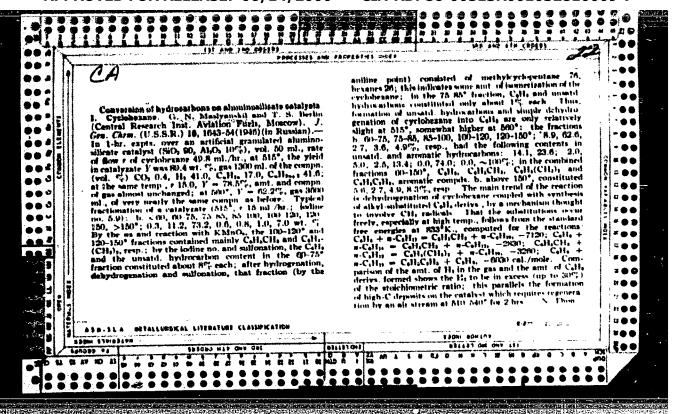


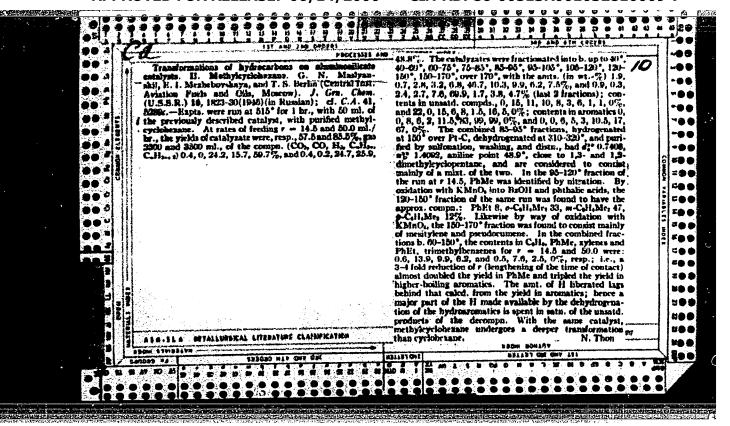


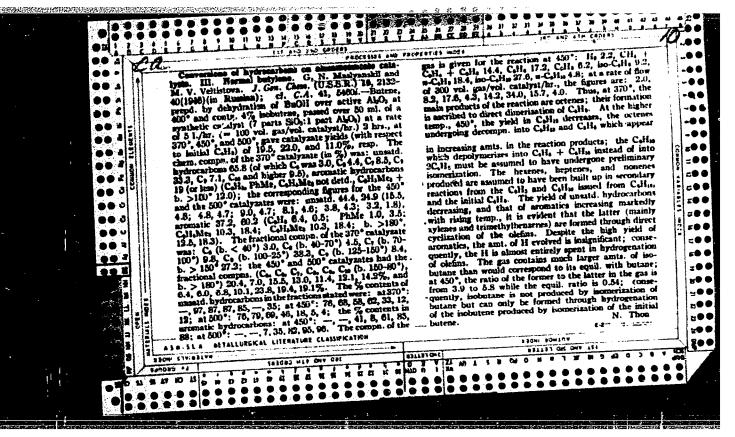


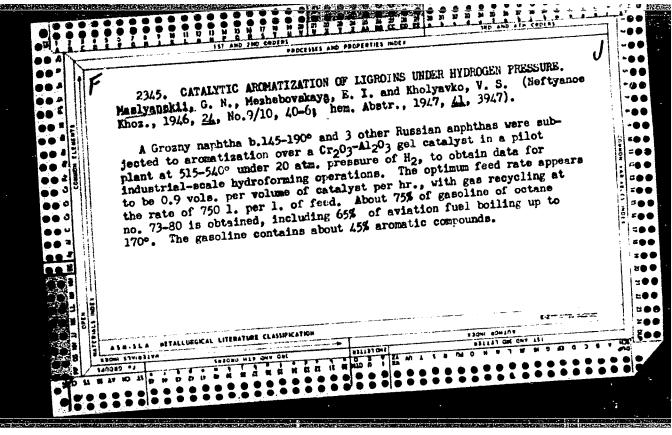


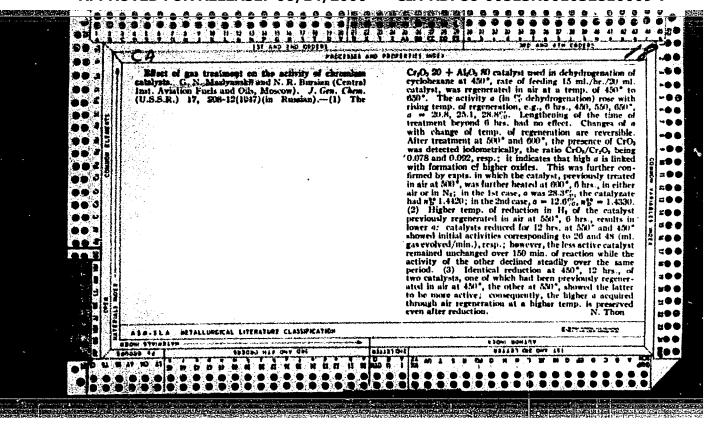












TERESHCHENKO, V. A., MADLYANSKIY, G. N.

Building Materials

Products from clay-co gulated mass Stek. i ker. 9 no. 5, May 1952.

195%. Unclassified. 9. Monthly List of Russian Accessions, Library of Congress, August

MASLYANSKIY, G. N.

Slag

Proper utilization of blast-furnace liquid slaps for the production of building materials. Stroitel'stvo No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress June 1953. WiCL.

MASLYANSKIY, G.N., inzhener; KPSHTEYN, S.A., inzhener.

Loess-like clayer soil as a filler in concrete and mortar. Stroi.pron. 31 (MLRA 6:7)

1. YuZhnii. (Clay) (Mortar) (Concrete)

MASLYANSKIY, G. N.

7659. MASLYANSKIY, G. N. -- Povysheniye Prochnosti shlakovykh iz deliy sposobom preryvistoy aktivizatsii I proparki v formakh. kiyev, izd-vo akad. arkhitektury USSR, 1954. 36 s. s ill. 22 sm. (M-VO stroitel'st va predpriyatiy metallurgich. I khim. promsti SSSR. Tekhn. UPR Yuzh. Nauch.--issled. in-t po stroitel'stvu Yuzh-nii. Nauch. Soobshcheniye). 3.500 ekz. 1R. 10K. -- (5563780)P

SO: Knizhnaya Letopsis', Vol. 7, 1955

### CIA-RDP86-00513R001032810009-7 "APPROVED FOR RELEASE: 06/14/2000

Maslyanskiy, G. N., Bursian, N. R. AUTHORS:

SOV/79-28-10-6/60

TITLE:

Kinetics of the Dehydration of Cyclohexane and Its Homologs on the Chromium Catalyst at Atmospheric Pressure (Ki etika degidrirovaniya tsiklogeksana i yego gomologov na khromevom

katalizatore pri atmosfernom davlenii)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 10,

pp 2656 - 2662 (USSR)

ABSTRACT:

In the present paper the kinetics of the dehydration of cyclohexane on the (Cr<sub>2</sub>0<sub>3</sub>/Al<sub>2</sub>0<sub>3</sub>) catalyst was investigated

at atmospheric pressure.

In addition, the relative dehydration velocities of some homologs of cyclohexane (of methyl cyclohexane); 1,3-dimetayl

cyclohexane; 1,3,5-trimethyl cyclohexane, isopropyl cyclohexane) were determined. It was found that the rate of the dehydration reaction can be represented by a kiretic equation for the monomolecular reaction which is slowed down by its products (see equation (2) in the experimental part). It is shown that benzene does not exert any hampering effect on the rate of the reaction.

The rate of dehydration of the six-membered (cyclo-

Card 1/3

SOV/79-28-10-6/60 Kinetics of the Dehydration of Cyclohexane and Its Homologs on the Chromium Catalyst at Atmospheric Pressure

paraffin) increases regularly with increasing molecular weight of the hydrocarbons. Table 1 gives the constants of the hydrocarbons used; table 2 shows the influence of the velocity of the passage of cyclohexane on its dehydration depth; table 3 shows the influence of the reaction temperature on the rate of dehydration of cyclohexane. The dehydration experiments of the cyclohexane mixture with benzene are given in table 4, and the dehydration experiments of various six-membered cycloparaffins are given in table 5. There are 5 tables and 16 references, 13 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva (All-Union Scientific Research Institute for the Processing of Petroleum and Gases, and for the Production of Synthetic Liquid Fuels)

SUBMITTED:

July 29, 1957

Card 2/3

AUTHORS:

Maslyanskiy, G. N., Bursian, N. R.

SOV/79-28-10-7, 6c

TITLE:

Investigation of the Dehydration Reaction of Cyclohexane on Chromium Catalysts Under Hydrogen Pressure (Izucneniye reaktsii degidrirovaniya tsiklogeksana na khromovom katalizatore pod davleniyem vodoroda)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2663 - 2667 (USSR)

ABSTRACT:

The aim of the present paper is the investigation of the rules governing the dehydration reaction of cyclohexane on Cr<sub>2</sub>O<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> catalysts at increased pressure.

It was found that the velocity of the reaction is proportional to the partial pressure of cyclohexane within the limits of 0,5 - 4,0 atmospheres absolute pressure. On the other hand, an increase of the partial pressure of hydrogen caused a slowing down of the dehydration of cyclohexane. It could be assumed that the cause of this hindrance of the reaction through hydrogen was in relation to the reaction kinetics. The results obtained make it possible to demonstrate the dehydration

Card 1/3

Investigation of the Dehydration Reaction of Cyclohexane on Chromium Catalysts Under Hydrogen Pressure

SOV/79-28-16-7/60

velocity of cyclohexane at increased pressure by means of a kinetic equation taking into account the hindering effect of hydrogen (see experimental part, page 2664). The rules found for the dehydration of cyclohexane on a chromium catalyst at atmospheric pressure remain valid also at pressures of up to 20 atmospheres absolute pressure, as it was demonstrated. The fact is important that the catalyst highly active at atmospheric pressure, considerably loses its activity in experiments carried out at hydrogen pressure, so that the reaction depth of cyclohexane is very low, even at 500° (Refs 6,5). Tile reason for this is not only to be found in the hydrogen but also in the deactivation of the catalyst. The experiments showed that one and the same amounts of the catalyst show great differences in their activities at atmospheric and increased pressure. This deactivation is probably one of the causes of the limited use of the chromium catalyst in modern aromatization processes. There are 1 figure, 3 tables, and 13 references, to of which are Soviet.

Card 2/3

Investigation of the Dehydration Reaction of Cyclohexane on Chromium Catalysts Under Hydrogen Prebsure

SOV, 79-28-10-7/60

ASSOCIATION: Vsesoyuznyy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva (All-Union In-

stitute for the Processing of Petroleum and Gases and for

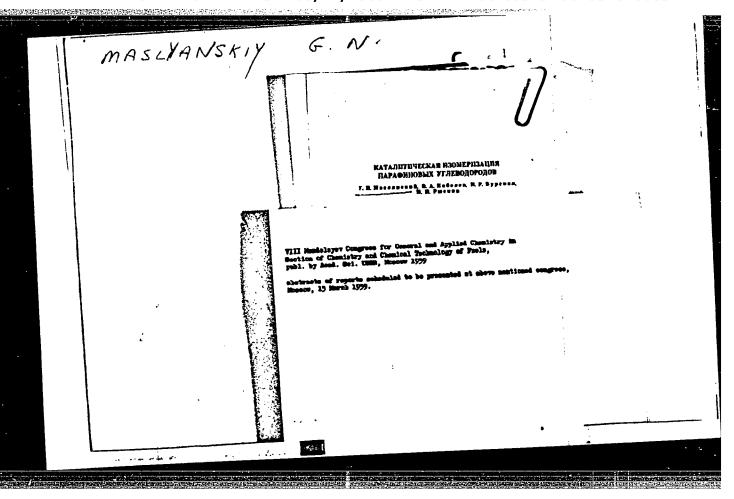
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the Production of Synthetic Liquid Fuels)

SUBMITTED:

July 29, 1957

Card 3/3



MASLYANSKIY, Q.N.; MUSHENKO, D.V.

Catalytic cracking of gas oils in the presence of propylene and of the propane-propylene fraction. Trudy VNIINeftekhim no.3:97-102 '60. (MIRA 14:2)

(Gracking process) (Propene)

(Propene)

5.3300 5.1190

s/153/60/003/02/28/034 B011/B006

AUTHORS:

Maslyanskiy, G. N., Bursian, N. R., Barkan, S. A.,

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Kobelev, V. A., Telegin, V. G.

TITLE 8

Catalytic Isomerization of n-Pentane

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 2, pp. 359-363

TEXT: Aluminum chloride, besides having certain advantages, also possesses disadvantages which complicate isomerization. In the years between 1948 and 1951, i.e. at a much earlier date than the USA scientists (Refs. 2-4), the authors developed a process for isomerizing normal paraffinic hydrocarbons (from butane to heptane inclusively) (Refs. 5,6) which does not differ fundamentally from the American process. Tungsten sulfide- and specially prepared platinum catalysts were used. They are catalytically active around 400°, so that the reaction proceeds only at increased pressure in presence of hydrogen and by circulating the gas. The catalysts are discussed. The tungsten sulfide WS2 proved to be most suitable. Characteristic data on its mode of action in n-hexane isomerization are Card 1/3

Catalytic Isomerization of n-Pentane

Card 2/3

s/153/60/003/02/28/034 B011/B006

given in Table 2. Under normal conditions, WS2 is fairly insensitive to poisoning. After 1500 h however, the degree of isomerization of n-hexane drops from 58.5% to 54%. The stability of WS2 can be maintained by admixing slight quantities of sulfur to the raw material. This complicates the technical process and corrodes the apparatus. In the case of platinum on fluorinated aluminum oxide, the authors investigated the effect of an increase in fluor content on the activity of the catalyst. It is seen from the results obtained, that the Al-Pt catalyst, prior to activation with fluorine, does not catalyze the isomerization of n-hexane (Fig. 1). At fluorine contents of up to 5%, catalytic activity increases considerably. A further rise in the F content (up to 15%) increases the activity but slightly. Table I shows the specific surface of the catalyst as a function of the F content. The above-mentioned increase in activity cannot be explained by an increase in the specific surface alone, but is also due to changes in the chemical- and physical properties of the catalyst. The activity of 0.6% platinum on an aluminum silicate carrier can be increased greatly by changing the properties of the carrier (Table 2). The results obtained using 0.6% palladium on aluminum silicate (Table 2) were even better than those obtained with Pt (52% yields of isopentane). Palladium

35 500

Catalytic Isomerization of n-Pentane

S/153/60/003/02/28/034 B011/B006

on aluminum silicate can therefore be applied as a suitable substitute for platinum on the same carrier. Finally the authors describe the technical process and give a basic scheme of the isomerization apparatus (Fig. 2). This paper was read at the Vsesoyuznaya Konferentsiya "Puti sinteza iskhodnykh produktov dlya polucheniya vysokopolimerov" (All-Union Conference "Ways for Synthesizing Initial Materials for the Preparation of High Polymer Substances) held at Yaroslavl' from September 29 to October 2, 1958. The specific surface was determined by G. M. Osmolovskiy. There are 2 figures, 2 tables, and 17 references, 9 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov (All-Union Scientific Research Institute of Petroleum-chemical Processes)

Card 3/3

. . . P

S/065/60/000/009/004/006/XX E030/E112

Maslyanskiv, G.N., Bursian, N.R., Kamusher, G.D., Barkan, S.A., and Shuvayev, Ye.S. AUTHORS:

Catalytic Reforming of Benzine Fractions on a TITLE:

Platinum Catalyst 7

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No. 9,

pp. 1-9

Full-scale plant studies have been conducted on reforming Eastern and Southern crudes on a platinum/alumina catalyst. Rumanian, Kirkuk, and Egyptian crudes have also been investigated. Two types of plant have been developed with reactor pressures around 20 and 40 atmospheres respectively, the former being better for producing high octane spirit and aromatics for organic synthesis. With a 60-120 oc straight-run fraction at 465 °C, the aromatic yield falls from 27% weight to 22%, and at 505 °C from 36 to 32%, on increasing the pressure from 20 to 40 However, coking of the catalyst and deactivation by sulphur compounds become troublesome at the lower pressures, If the sulphur content especially with C8 and heavier fractions. Card 1/3

S/065/60/000/009/004/006/XX E030/E112

Catalytic Reforming of Benzine Fractions on a Platinum Catalyst of the crude rises from 0.01% to 0.27%, the octane number falls from 77.3 to 70.3, the aromatic yield falls 1.7 times, and the gas yield increases 1.5 times. The sulphur content of the feedstock yield increases 1.5 times. The sulphur content of the feedstock should be less than 0.02%, especially at 20 atmospheres operation. For low sulphur crudes (0.05-0.7% sulphur feed), the H<sub>2</sub>S is removed from the circulating gas with ethanolamine, and for high sulphur feeds (greater than 0.7% weight sulphur) hydrofining is necessary feeds (greater than 0.7% weight sulphur) hydrofining is necessary. The catalyst can be regenerated by exidation for about 30 hours at 300-450 °C, with 0.8-1.5% of oxygen in the gas which circulates at 10-20 atmospheres. After subsequent regeneration, the aromatic yield falls by 30-50%. Oxidation at higher temperatures (around 550 °C) is impracticable because the catalyst becomes deactivated The most important crude factor determining the yield of high octane spirits and aromatics is the naphthene content. Southern crudes (containing about 50% naphthenes) yield 1.5 times more aromatics than Eastern crudes (containing about 25% naphthenes), the difference becoming greater as higher boiling feedstocks are used. At 80 OF severity, the 85-180 °C cuts yields 83% motor Card 2/3

S/065/60/000/009/004/006/XX E030/E112

Catalytic Reforming of Benzine Fractions on a Platinum Catalyst

spirit from Eastern crude, and 91% from Southern crudes.
A.A. Potapova participated in the work.
There are 2 figures, 4 tables and 17 references: 5 Soviet and 12 non-Soviet.

ASSOCIATION: VNIIneftekhim, Giproneftezavody (VNIIneftekhim, Giproneft Works)

Card 3/3

11.1210 AUTHORS:

S/079/60/030/011/013/026 B001/B066

Bursian, N. R. and Maslyanskiy, G. N.

TITLE:

Investigation of Cyclohexane Conversions With a Molybdenum Catalyst

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 11, pp.3702-3708

TEXT: It is shown in the present paper that two reversible reactions occur at the same time when passing cyclohexane over the catalyst (MoO3/Al2O3) at a hydrogen pressure between 10 and 40 atm and at temperatures between 455 and 495°C; dehydrogenation of cyclohexane to benzene, and its isomerization to methyl cyclopentane. It was the purpose of the present paper to study the influence of reaction conditions upon the composition of reaction products, and to determine the factors by which the relative rates of dehydrogenation and isomerization of cyclohexane might be controlled. The reaction conditions correspond approximately to those used in the industry in aromatization processes (with the above molybdenum catalyst). To analyze the results, the equilibrium ratios of the reactants had to be calculated from the course

Investigation of Cyclohexane Conversions With a Molybdenum Catalyst

5/079/60/030/011/013/026 B001/B066

of the two reactions. The free energy values for these reactions may be calculated approximately by the following equations: I.  $C_6H_{12} \rightleftharpoons C_6H_6 + 3H_2$ ;  $\Delta F^0 = 53700 - 96.6 \text{ T (1)}$ II.  $C_6H_{12} \rightleftharpoons C_5H_9CH_3$ ;  $\Delta F^0 = 3600 - 10 \text{ T (2)}$ .

Equation (1) according to A. Francis (Ref.8) agrees well with the experimental data of V. R. Zharkova and A. V. Frost (Refs.9,10). Also equation (2) (Ref.11) corresponds well with the experimental data (Ref.12). On the basis of these equations, the dependence of the logarithms of the equilibrium constants  $K_{\overline{I}}$  and  $K_{\overline{I}\overline{I}}$  for reactions I and II may be expressed

as follows:  $\frac{\log K_{I} = -\frac{53700}{4.573 \text{ T}} + 21.12 (3);}{4.573 \text{ T}} + 2.19 (4), \text{ where } K_{I} = \frac{p_{2} \cdot p_{4}}{p_{1}}; K_{II} = \frac{p_{3}}{p_{1}};$ 

p<sub>1</sub>, p<sub>2</sub>, p<sub>3</sub>, p<sub>4</sub> = partial pressures of cyclohexane, benzene, methyl cyclopentane, and hydrogen, respectively. The percentage content of benzene, methyl cyclopentane, and cyclohexane in their equilibrium mixture

Card 2/3

CIA-RDP86-00513R001032810009-7" **APPROVED FOR RELEASE: 06/14/2000** 

Investigation of Cyclohexane Conversions With a Molybdenum Catalyst

S/079/60/030/011/013/026 B001/B066

according to the experimental conditions was calculated from the values  $K_{\rm I}$  and  $K_{\rm II}$  (Tables 1 and 2). The rates of isomerization and dehydrogenation of cyclohexane at temperatures between 455 and 495°C and a hydrogen pressure of about 20 atm are thus commensurable. The quantitative ratio between benzene and methyl cyclopentane in the catalyzate depends on the degree of cyclohexane conversion. The formation rate of benzene decreases and that of methyl cyclopentane increases with increasing hydrogen pressure. This paper was presented to the All-Union Conference on Organic Catalysis, November 18, 1959, Moscow. There are 3 figures, 2 tables, and 18 references: 10 Soviet and 8 US.



ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut po
pererabotke nefti i gaza i polucheniyu iskustvennogo zhidkogo
topliva (All-Union Scientific Research Institute for the
Processing of Oil and Gas and the Production of Synthetic
Liquid Fuel)

SUBMITTED:

January 7, 1960

Card 3/3

MASLYANSKIY, G.N.; RABINOVICH, G.L.

Demethylation of toluene by conversion with water vapor.

Neftekhimia 1 no.2:182-186 Mr-Ap '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimi-cheskikh protsessov, g. Loningrad.

(Toluene)
(Catalysts, Nickel) (Methylation)

MASLYANSKIY, G.N.; POTAPOVA, A.A.; AVTONOMOVA, N.Kh.; SHMULYAKOVSKIY, Ya.E.

Synthesis of ethyl benzens by catalytic reforming of marrow gasoline fractions. Neftekhimiia 1 no.2:187-194 Mr-Ap '61.

(MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimi-cheskikh protsessov, g. Leningrad. (Benzene)

(Gasoline)

S/064/61/000/003/001/009 B101/B203

AUTHORS:

Bursian, N. R., Maslyanskiy, G. N.

TITLE:

Catalytic isomerization of n-pentane on a platinum catalyst

PERIODICAL:

Khimicheskaya promyshlennost', no. 3, 1961, 18-20

TEXT: The development of the isoprene rubber production and the increased demand of isopentane used as a raw material for isoprene were the reason for studying the isomerization of n-pentane to i-pentane. This isomerization by means of platinum catalysts has been mentioned in publications (Ref. 3: H. Heinemann et al. Erdöl und Kohle, No.4.228 (1959); Ref. 4: L. E. Dean et al. Oil Gas.J. 56, No. 29,54 (1958)). Platinum precipitated on a carrier was used in the present investigation. Initially, a catalyst with 0.6% of platinum was used, later on, more efficient catalysts giving the same yield at a temperature 30-40°C lower. Fig. 1 shows a diagram of the test plant. From the high-pressure graduated burette 1, the n-pentane passed into the dropping glass 2 where it mixed with the circulating hydrogen-containing gas, and entered the reaction vessel 3. The reaction products passed through the cooler 4 into the separator 5. The hydro-Card 1/7

Catalytic isomerization of ...

S/064/61/000/003/001/009 B101/B203

carbon vapors carried along by the gaseous reaction products were condensed in the ice-cooled vessel 6. The circulating gas was pressed by a compressor into the filter system 8 where it was freed from oil. 9 is a rheometer. The liquid products were periodically filled from 5 into a vessel cooled with ice and salt. The gas liberated by throttling to atmospheric pressure was measured by the gas meter 10. The reaction vessel 3 contained 40 ml of catalyst whose temperature was measured by means of three Chromel-Alumel thermocouples. The fresh catalyst was reduced at elevated pressure and by circulation of 1000 apparatus volumes of H2. Temperature was gradually increased to 400°C within 12 hr. The raw material used was n-pentane produced from hydrogenated Synthol by fractional distillation and containing 99.3% of n-pentane. Special tests were made with a mixture of 12.4% isopentane and 87.6% n-pentane. Raw materials and reaction products were analyzed by the chromatographic method developed at the VNIIneftekhim. The authors studied: 1) The effect of the molar ratio H<sub>2</sub>: n-C<sub>5</sub>H<sub>12</sub>. Tests were made at 380°C, and the ratio was varied between 2.3 and 34. Fig. 2 shows the results for n-pentane containing 12.4%

Card 2/7

Catalytic isomerization of ...

S/064/61/000/003/001/009 B101/B203

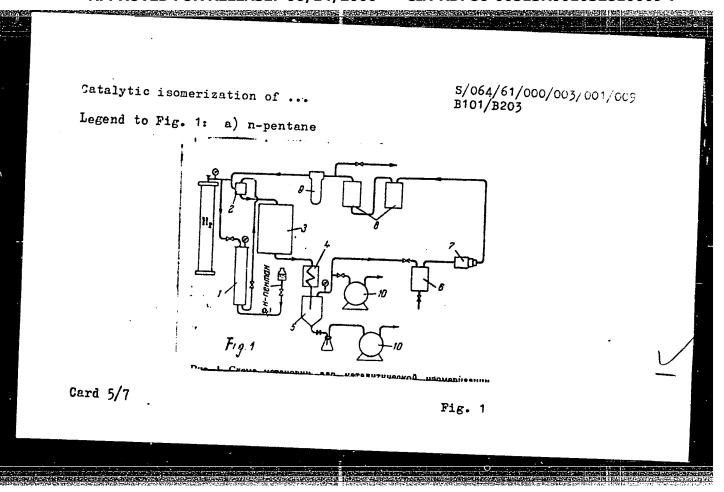
i-pentane; and n-pentane containing 0.7% i-pentane, at a volume velocity = 1 hr<sup>-1</sup>. The course of the curves is explained by the circumstance that with increasing ratio the partial pressure of n- pentane decreases, which delays its isomerization. H<sub>2</sub>: n-C<sub>5</sub>H<sub>12</sub> = 3 is indicated as optimum still ensuring a steady operation of the catalyst. 2) The effect of pressure. Tests were made at 380° and 430°C. They showed that the kinetics of the process was better at low pressure. Higher pressure had, however, to be chosen to ensure steady operation of the catalyst at the ratio H<sub>2</sub>: n-C<sub>5</sub>H<sub>12</sub> = 3. Abstracter's note: No numerical data on pressure are stated in the paper. 3) The effect of volume velocity and temperature. Tests made with H<sub>2</sub>: n-C<sub>5</sub>H<sub>12</sub> = 2.5 at 380, 400, 420, 440, and 460°C and a volume velocity of 1.0-4.0 hr<sup>-1</sup> showed: When increasing the temperature obtain the same yield of i-pentane. A 50% yield was attained at a volume 460°C gave a yield of 58%. Fig. 4 shows the selectivity of the catalyst; the yield of C<sub>1</sub> - C<sub>4</sub> hydrocarbons as a function of the yield in i-C<sub>5</sub>H<sub>12</sub>.

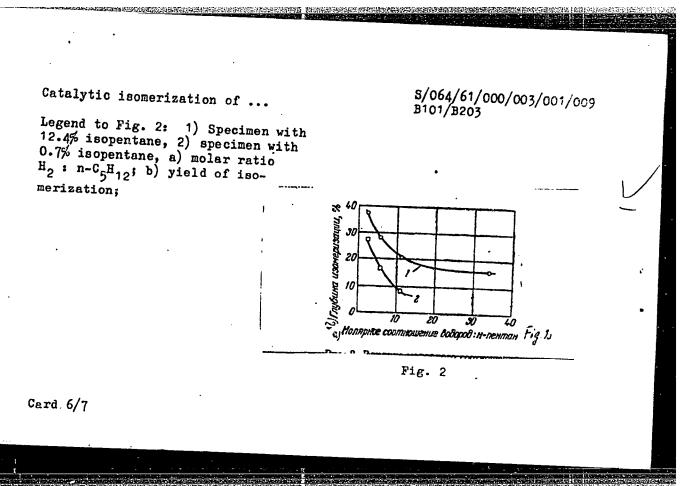
Catalytic isomerization of ...

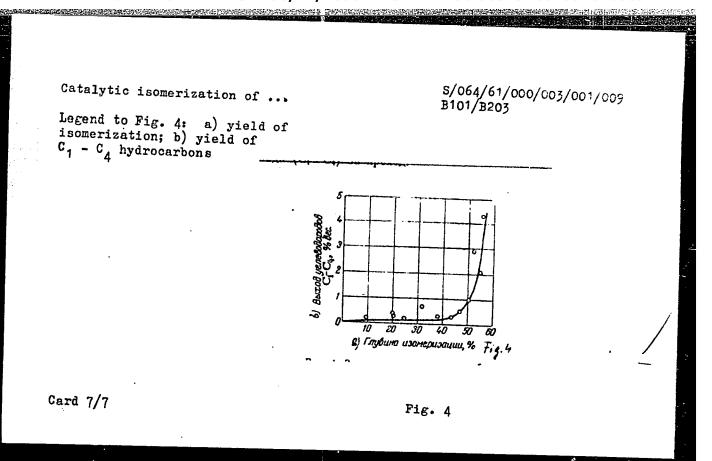
S/064/61/000/003/001/009 B101/B203

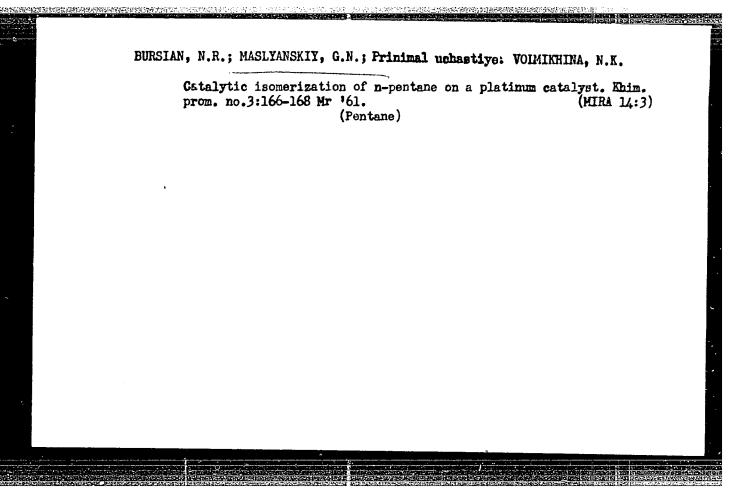
A test with n-pentane from petroleum containing 0.01% by weight of sulfur gave the following reaction products (in % by weight): methane 0.12, ethane 0.27, propane 0.51, isobutane 0.30, n-butane 0.30, i-pentane 50.0, n-pentane 47.0, losses 1.5. N. K. Volnukhina assisted in the experiments. There are 4 figures and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc.

Card 4/7









MASINANSKIY, G.N.; BURSYAN, N.P.; KORRIEV, V.A. [deceased]; RYSKIN, M.I.

Catalytic isomerization of paraffin hydrocarbons on a tungsten catalyst. Khim.i tekh.topl.i masel 6 no.1:11-15 Ja '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

(Paraffins)
(Gasoline—Antiknock and antiknock mixtures

BURSIAN, N.R.; MASLYANSKIY, G.N.

Effect of sulfur on the activity and selectiveness of platinum reforming catalyst. Khim. i tekh. topl. i masel. 6 no.10:6-9 0 161. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.
(Catalysts, Platinum)

(Sulfur)

26518 \$/065/61/000/008/001/009 E030/E135

11.0100

Card 1/3

**AUTHORS:** 

Maslyanskiy, G.N., Bursian, N.P., Kamusher, G.D., Potapova, A.A., Garanin, I.L., and Chernikov, N.V.

TITLE: Some technological points in catalytic reforming.

TITLE: Some technological points in the points of the poin

TEXT: Some very important principles in reforming have been established at a pilot plant specially constructed by Lengiprogaz on the basis of data supplied by VNIIneftekhim, and operated over six years. Since the reforming process is highly endothermic, laboratory conditions, which are approximately isothermal, cannot adequately simulate the adiabatic plant-scale conditions. The pilot plant is conventional, with three successive identical reactors, 160 mm diameter and 3100 mm high. Feed can enter at 20 to 50 atmospheres, and the reactors are maintained at 500-525°C. The first three experiments, lasting six months each, used Eastern crudes with about 25% naphthenes and no catalyst regeneration; the fourth used Il'skiy crude, with about 40-50% naphthenes and oxidative regeneration. In the first experiments, the reactor

26518 \$/065/61/000/008/001/009 E030/E135

Some technological points in ...

temperature was slowly increased to compensate for the decreasing catalyst activity (Pt catalyst). The Eastern crudes with 0.15% sulphur feed gave benzine with 72 ON (Motor method) but the fourth experiment, with hydrofined material, gave 78 ON. Adiabatically controlled experiments established the activation energies as around 75 kcal/kg. As the asphaltene content rose, the heating effect also rose sharply; it also rose as the sulphur content fell and destructive hydrogenation increased. The temperature drops in the reactors indicated that, for the Eastern crudes, the reaction of aromatization was virtually completed in the second reactor, but this disagreed with the product analysis from the reactors which gave the production of aromatics from stage to stage as about 50, 35 and 15%. Clearly, reaction continued in the last stage, but heat absorption was masked by the increasing exothermic hydrocracking in the third reactor. In the last series of experiments the temperature was probed through each catalyst bed. It was seen that with fresh catalyst and Eastern crudes with 0.15% sulphur, only about 50% of the first stage showed temperature gradients, and the whole of the second stage showed a gradual temperature gradient; one might therefore wish to reduce the charge Card 2/3

Some technological points in ....

26518 S/065/61/000/008/001/009 E030/E135

in the first reactor, for economy. However, with catalyst ageing, the temperature drop began to be very shallow in about the first 10% of all three reactors, and there were distinct gradients in them all. This showed that the first stage was acting also as a trap for catalyst "poisons", and a large charge was therefore necessary, unless one wished to previously remove the poisons (such as nitrogen, sulphur, and arsenic) by hydrofining, for example. All the results of the investigation concerned fundamental principles which could not have been resolved in laboratory scale experiments.

There are 3 figures and 5 tables.

ASSOCIATION: VNIIneftekhim

Card 3/3

Catalytic 715 3-0	demethylation of toluene. Heftekhimiia 2 no.5:709- '62. (MIRA 16:1
l. Vsesoy	yuznyy nauchno-issledovatel'skiy institut neftekhimicheskik
•	(Toluene) (Methyl group)
	····
·	4

S/065/62/000/007/001/002 E075/E436

AUTHORS:

Bursian, N.R., Maslyanskiy, G.N.

TITLE:

Preliminary hydrofining of the feedstock for catalytic

reforming process

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.7, 1962, 5-8

TEXT: A comparative study of two variants of a process for the hydrofining of high-sulphur straight-run benzenes is given. The feedstock was a fraction of Ishimbay crude ( $d_4^{20} = 0.756$ ), of boiling point range 105 to 180°C, containing 0.26% S. It was shown that spent reforming Pt catalyst could be used with Al-Co-Mo catalyst for the desulphurization, the latter having a better desulphurizing action than the Pt catalyst at 380°C; both catalysts were equally effective at 420°C. With the molar ratio of H: feedstock = 0.3 - 0.4, pressure 30 to 40 kg/cm² ratio of H: feedstock = 0.3 - 0.4, pressure 30 to 40 kg/cm² and temperature 340 to 380°C, the content of sulphur after hydrofining was lowered to 0.007% during "on stream" operation. The operation with gas circulation gave 0.004% S content. The ratio of H: feedstock of 0.36, pressure 30 kg/cm² and the rate of feed of 5.0 v/v of the catalyst per hour, Al-Co-Mo Card 1/2

Preliminary hydrofining ...

S/065/62/000/007/001/002 E075/E436

catalyst preserved its initial activity for 3 months. There are 1 figure and 2 tables.

ASSOCIATION: VNIINeftekhim

Card 2/2

ACCESSION NR: AR3000550

8/0081/63/000/007/0510/0510

SOURCE: RZh. Khimiya, Abs. 7P185

AUTHUR: Maslyanskiy, G. N.; Burslan, N. R.; Mel'nikova, N. P.;

Fedorov, A. P.; Podol'skiy, M. A.

TITLE: Production of aromatic hydrocarbons by catalytic reforming

of gasoline fractions

CITED SOURCE: Novosti neft. ; gaz. tekhn. Neftepererabotka 1

neftekhimiya, no. 7, 1962, 10-13

TOPIC TACS: Krasnodar and Kuybyshev gasolines; catalytic reforming;

erometic hydrocarbons

TRANSLATION: In a pilot-plant unit experiments were conducted on catalytic reforming, over the industrial Pt-catalyst AP-56, of the 60-105° and 105-140° narrow fractions of straight-run gasolines of

Card 1/2

ACCESSION HR: AR3000550

the Krasnodar and Novokuybyshevsk refineries. The fractions of Krasnodar gasoline contained 1.5-1.7 times more naphthenic hydrocarbons and 1.5-2 times less S-compounds, then the analogous fractions of Knybyshev gasoline. On catalytic reforming of the 60-105 fraction of Knybyshev gasoline the yield of light aromatic hydrocarbons was 8.5%, as compared with 15% obtained as a result of processing of the analogous fraction of Krasnodar gasoline. The yield of high-boiling aromatic hydrocarbons from the above-stated fractions was found to be closely approximating, and amounted to about 20%. On catalytic reforming of the 105-160° fraction of either gasoline the yield of aromatic hydrocarbons C sub 8 amounted to 25-20%. -- A. N.

DATE ACQ: 21May63 ENCL: 00 SUB CODE: 00

Card 2/2

S/080/62/U35/004/012/UTA D204/D301

5.1190

Maslyanskiy, G. N. and Bursian, N. R. AUTHORS:

TITLE:

A study of molyodenum und tungsten catalycts for the

isomerization of paraffinic hydrocarbons

Zhurnal prikladnoy khimii, v. 35, no. 4, 1.62. 11-624 PERIODICAL:

TEXT: The activity and selectivity of W and No sulphide and exide catalysts were compared by the isomerization reaction of a-hexene under a pressure of  $H_2$ , between ~350 and 550°C, since little work

has been done in this field. The experimental procedure and wealthsis of the products (neo-hexane, iso-hexane, n-hexane, pentime) are briefly described. Activity of the catalysts was accessed by the iso-hexane: n-hexane ratio and selectivity by the pentane: 180hexane ratio. Among the sulphide catalysts studied (WS,-pure and on carriers,  $MoS_3$  +  $Al_2O_3$ ), pure  $WS_2$  was found to be the best. Asmixtures of S- and O-containing compounds or of naththene nydre-

Card 1/3

A study of molybdenum ...

\$/080/62/035/004, 012, 012 D204/D301

carbons to the reaction mixture did not impede the isomerization. The oxide catalysts (MoO<sub>3</sub> + Al<sub>2</sub>O<sub>3</sub>, NiO + MoO<sub>3</sub> + Al<sub>2</sub>O<sub>3</sub>, CoO + MoO<sub>3</sub> + +  $\text{Al}_2\text{O}_3$ ,  $\text{CuO} + \text{MoO}_3 + \text{Al}_3\text{O}_3$  and  $\text{WO}_3 + \text{Al}_2\text{O}_3$ ) showed a least continuous vity than the sulphides. The  $(NoO_3 + \Lambda l_2 O_3)$  catalyst had the minute est selectivity among the oxides. Activity of these catalysts soll be appreciably increased by an alternate oxidation and reduction treatment which probably produced more active components. The (NoO3 + Al2O3) catalyst could also be activated by fluoring. The was found that the nickelo- and copalti-molybdenic catalysts was a property of the contract of the dily poisoned by CS2 or H2S, but the activity could be required by an oxidative regeneration. Fluoring-activated (NoO, + Algebraic) therefore, considered the best exide catalyst of those testen. The results are tabulated. There are 6 tables and 22 references: 13 viet-bloc and 9 non-Soviet-bloc. The 4 most recent references the English-language publications read as follows: Oil a. . . . . . . . . . . . . 54, 46, 183, (1956); Petr. Refiner., 35, 7, 148, (1966); and the second Cará 2/3

S/080/62/035/004/012/022 D204/D301

A study of molybdenum ...

troleum, 28, 1, 67, (1957); H. W. Grote, Oil a. gas J., 56, 13, 73, (1958).

SUBMITTED: March 31, 1961

Card 3/3

MASLYANSKIY, G.N.; RABINOVICH, G.L.; AVTONOMOVA, N.Kh.

Regeneration of a nickel-chromia catalyst in toluene demethylation. Neftekhimia 3 no.1:94-96 Ja-F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

(Toluene) (Methyl group)

(Nickel catalysts)

MASLYANSKIY, G.N.; BURSIAN, N.R.; KAMUSHER, G.D.; BARKAN, S.A.; POTAPOVA, A.A.

Effect of the hydrocarbon and fractional composition of the raw material on the yield and quality of catalytically reformed gasolines. Khim. i tekh. topl. i masel 8 no.4:5-11 Ap '63.

(Gasoline) (Petroleum—Analysis) (Cracking process)

ASPEL:, N.B.; GOLOV, G.S.; BURSIAN, N.R.; MASIYANSKIY, G.N.

Domestic plants for catalytic reforming and the basic indices of their operation. Khim. i tekh. topl. i masel 8 no.5:4-8 My 163. (MIRA 16:8)

1. Lengiprogaz i Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

MASLYANSKIY, G.N.; BARKAN, S.A.; PAHMIKOVA, R.F.

Methods for the further perfection of the catalytic reforming process. Nefteper. i neftekhim no 9:3-7 '64. (MIA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skoy institut neftekhimi-cheskikh protsessov, Leningrad.

MASLYANSKIY, G.N.; RABINOVICH, G.L.; AVTONOMOVA, N.Kh.

Catalytic dealkylation of ethyl benzene. Neftekhimia 4 no.3:421-

425 My-Je 164.

l. Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimicheskikh protsessov.

MASLYANSKIY, G.N.; RABINOVICH, G.L.; BRISKER, K.L.

Catalytic dealkylation of isomeric xylenes. Neftekhimia 4, no.3:426-430 My-Je '64. (MIRA 18 2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheškikh protsessov.

S/0080/64/037/002/0393/0399

AP4018071 ACCESSION NR:

AUTHORS: Maslyanskiy, G.N.; Kamusher, G.D.; Pannikova, R.F. Catalytic reforming of gasoline fractions in the presence of

TITLE: traces of carbon tetrachloride

Zhurnal prikladnoy khimii, v.37, no.2, 1964, 393-399 SOURCE:

TOPIC TAGS: g soline, gasoline fractions, catalytic reforming, aluminoplatinum catalyst, chloro organic compound addition, catalyst stability, octane number, catalyst regeneration, carbon tetrachloride trace

ABSTRACT: In studying the catalytic reforming of gasoline fractions with a catalyst consisting of 0.6% platinum precipitated with aluminum oxide, it was found that the addition of 0.005-0.01% COl4 to the crude oxide, it was found that the addition of 0.003-0.01% oof4 to the citate oil increases the activity of the catalyst. This increase in activity is shown by the increase in octane number of the product (e.g., from 78.5 to 83), the increase in its aromatic hydrocarbon content (46.3 to 47.5%), and the decrease in its yield (from 81.1 to 75.2%). Introduction of the catalysts of careful of the catalysts of the catalysts. tion of very small amounts of organic chlorine compounds to the reac-

Card 1/2

CIA-RDP86-00513R001032810009-7" APPROVED FOR RELEASE: 06/14/2000

ACCESSION NR: AP4018071

tion zone with the crude oil signigicantly increases stability of the aluminiplatinum catalyst; activity of the catalyst is constant after 120 hours as compared to reduced activity in 20 hours with "pure" crude oil. After oxidation regeneration, the catalyst shows higher catalytic activity if used on crude oil containing traces of COl4 (octane number of 85-87 as compared to 82-83 when used with "pure" crude oil). Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: Vsesoyuzniy\*y nauchno-issledovatel'skiy neftekhimichesky institut (All-Union Petrochemical Scientific Research Institute)

SUBMITTED: 23Jul62

DATE ACQ: 19Mar64

ENCL: 00

SUB CODE: FL

NR REF SOV: 009

OTHER: 003

Card 2/2

L 29345-66 ENT(m)/T WE ACC NR. AP5027725 (A) SOURCE CODE: UR/0065/65/000/009/0001/0005 AUTHOR: Bursian, N. R.; Maslyanskiy, G. N.; Volnukhina, N. K.; Zabryanskiy, Ye. I. B ORG: VNIIneftekhim TITLE: Obtainment of high octane motor vehicle gasoline from blends of isoparaffin components and catalytically reformed gasoline SOURCE: Khimiya i tekhnologiya topliv i masel, no. 9, 1965, 1-5 TOPIC TAGS: motor vehicle gasoline, gasoline, fuel octane rating, - liquid fuel, petroleum fuel, fuel additive, tetraethyl lead, cataly-ANSTRACT: The 1965-1970 plan for the development of the national economy of the SSSR requires that the octane number of motor vehicle gasoline for domestic consumption be raised to 95. Experimental results show that 1) motor vehicle gasoline with a 95 octane number can be obtained on the base of catalytically reformed gasoline with a 97-98 octane number and a 25-30 wt. percent addition of isopentane, and 2) motor vehicle gasoline with 95 or higher octane numbers can be Cord 1/2 UDC: 665, 521, 23

additions of isopentane and isoparaffin components with an number of 80-85. Orig. art. has: 3 figures and 3 tables.  SUB CODE: 21/ SUBM DATE: none / SOV REF: 003	en Baue
SUB CODE: 21/ SUBM DATE: none / SOV REF: 003	
Card 2/2 0.6/	

MASLYANSKIY, G.N.; BURSIAN, N.R.; SHIPIKIN, V.V.

Change in the proper 'es of the alumiro-platinum reforming catalyst during protractd operation. Knim.i tekh.topl. i masel (MIRA 18:4, 10 no.1:2-6 Ja 65.

1. Vsesoyuznyy nauchno-issledovatel skiy institut nefterhimio....skikh protsessov.

KLIMENKO, V.L.; TSYRKIN, Ye.B.; KHIZHNYAK, V.F.; MASLYANSKIY, G.N.; BURSIAN, N.R.

Efficiency of the process of the isomerization of gasoline fractions. Khim. i tekh. topl. i masel 10 no.7:50-53 Jl '65. (MIRA 18:9)

10.00 ATTOCK ACTION TO A TOTAL ACTION TO A TOTA

1. Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimicheskikh protsessov.

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BURSIAM, N.R.; MASLYANSKIY, G.N.; VOLNUKHINA, N.K.; ZABRYANSKIY, YG.I.

Using isoparaffinic components and catalytic reforming gasolines in the production of high-ectane automobile fuels. Khim. i tekh. topl. i masel 10 no.9:1-5 S '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

MASLYANSKIY, G.N.; PANNIKOVA, R.F.; KAMUSTER, G.D.

Production of high-octane catalytic reforming gasolines. Khim. i tekh. topl. i masel 10 no.12:1-6 D '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimi-cheskikh protsessov.

VOLCHANSKAYA, Ye.A., red.; MASLYANSKIY, G.N., red.; TERESHCHENKO, V.A., kand. tekhn. nauk, red.; KHVOROSTANSKAYA, Ye.M., red.; GAYDAY, V.K., red.

[Treatment and applications of molten slags] Pererabotka i primenenie shlakovykh rasplavov. Kiev, Budivel'nyk, 1965.

(MIRA 18:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

ACC NR: AP7002623 (A, N) SOURCE CODE: UR/0413/66/000/023/0158/0159	
INVENTOR: Maslyanskiy, G. N.; Kamusher, G. D.	i
ORG: None	
TITLE: A method for producing an activated platinum catalyst. Class 12, No. 109630	:
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 158-159	
TOPIC TAGS: industrial catalyst, gasoline, platinum, aluminum oxide, CATALYTIC	!
ABSTRACT: This Author's Certificate introduces: 1. A method for producing an activated platinum catalyst for reforming gasoline. The catalyst contains aluminum oxide as a carrier. Catalytic activity is improved by the simultaneous use of two promoters—silicon and fluorine. These activators are introduced by treating aluminum oxide or hydroxide in fluosilicic acid or silicon tetrafluoride. 2. A modification of this method in which fluosilicic acids are introduced in quantities from	
0.2 to 3.0%.	
SUB CODE: 07, 21 / SUBM DATE: 23Jul57	•
Cord 1/1	<del></del>

ACC NR: AP7002624 (A.N.) SOURCE CODE: UR/0413/66/000/023/0159/0159

INVENTOR: Maslyanskiy, G. N.; Kamusher, G. D.; Mushenko, V. M.

ORG: None

TITLE: A method of producing a platinum catalyst. Class 12, No. 108268

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 159

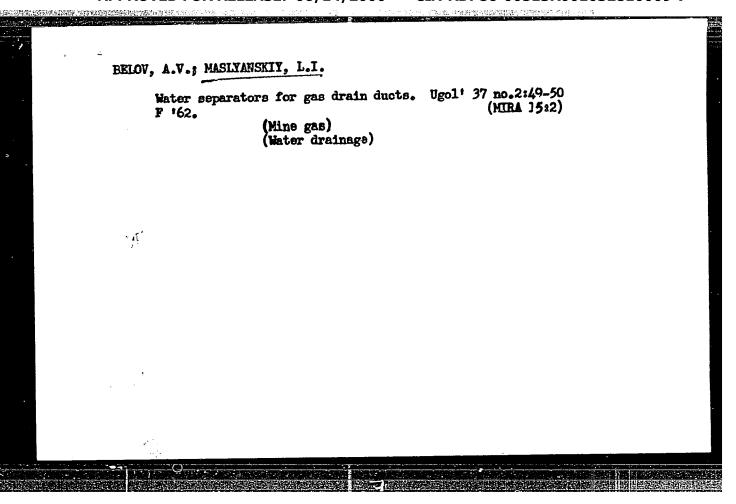
TOPIC TAGS: industrial catalyst, platinum, gasoline, aluminum oxide, CATHLYTIC PRESCRIMA 6

ABSTRACT: This Author's Certificate introduces: 1. A method of producing a platinum catalyst for reforming gasoline by treatment of granulated aluminum oxide in a solution of chloroplatinate. To improve the activity and stability of the catalyst, the depth of platinum penetration into the carrier granule (tablet) is controlled by adding certain quantities of organic or mineral acids to the chloroplatinate solution.

2. A procedure for carrying out this method in which the process is accelerated by maintaining a temperature above 20°C.

SUB CODE: 07, 21 / SUBM DATE: 28Jul55

Card 1/1



\$/065/63/000/002/005/008 E194/E484

AUTHORS: Maslyanskiy, N.G., Zabryanskiy, Ye.I., Kamusher, G.D.,

Pannikova, R.F.

TITLE: The detonation stability of gasoline produced by

catalytic reforming

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.2, 1962,

49-52

After a review of the motor and research methods of TEXT: determining the octane number of gasoline and the meaning of sensitivity, the use of these methods to assess the detonation characteristics of gasoline produced by catalytic reforming is The gasolines were produced by reforming fractions 85 to 180 and 105 to 180°C, produced by rectification of straight run gasoline in the Ufimskiy ordena Lenina neftepererabatyvayushchiy zavod (Ufa Order of Lenin Petroleum Refinery). A study was first made of the influence of the aromatic content of the gasoline which was varied by altering the process temperature; raising the aromatics content increased both the octane number and the Tests made with reforming pressures of 20 and sensitivity. 40 kg/cm2 showed that this variable had very little effect on the Card 1/2

The detonation stability ...

S/065/63/000/002/005/008 E194/E484

detonation characteristics of the gasoline of given aromatics content. Tests of the influence of reformed gasoline yield on octane number would yield a similar picture, the higher the yield and, therefore, the lower the aromaticity and octane number the lower the sensitivity. The addition of 0.5 ml t.e.l. concentrate P-9 (R-9) per kg gasoline raised both the motor and research octane numbers by about four points. There are 4 figures and 2 tables.

ASSOCIATION: VNIINeftekhim, VNII NP

Card 2/2

MASLYANSKIY, N.G.; ZABRYANSKIY, Ye.I.; KAMUSHER, G.D.; PANNIKOVA, R.F.

Detonation stability of gasolines from catalytic reforming. Khim.i tekh.topl.i masel 8 no.2:49-52 F '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov i Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

SURGUCHEV, M.L.; MASLYANTSEV, Yu.V.

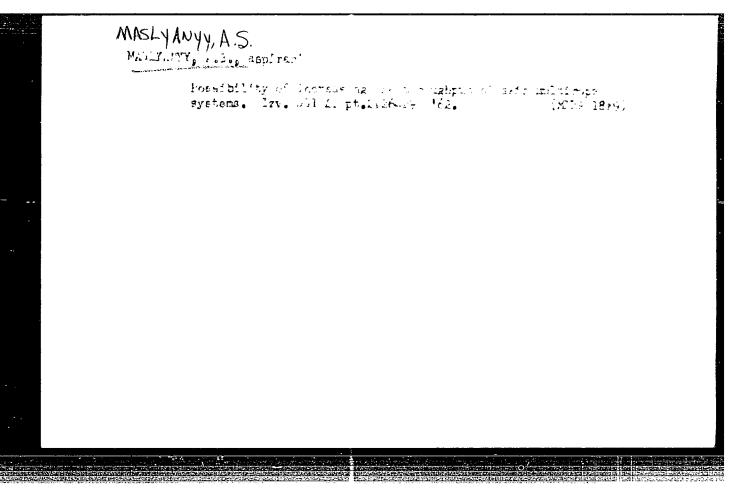
Effect of selective fluid flow in a nominiform layer on flooding, indices. Nauch. tekh. sbor. po dob. nefti no.27:54-61 165. (MJRA 18:9)

2、1990年的北京运动的运动的运动的现在分词逐渐将发现的海岸和战争。

1. Gosudarstvennyy institut po proyektirovaniyu i issledovateliskim rabotam neftedobyvayushchey promyshlennosti vostochnykh rayonov strany, Kuybyshev.

LEVIT, G.T., inzh.; VTOROV, Ye.P., inzh.; MASLYAYEV, A.S., inzh.; DUDOROV, Yu.D., inzh.

Burning of Ekibastuz coal in furnaces with hammer mills. Elek. sta. 34 no.8:8-13 Ag \*63. (MIRA 16:11)



ARKHANGEL'SKIY, P.P., agronom po zashchite rasteniy (Kazakhskaya SSR); MASLYAYEV, A.V.

Responses to our articles. Zashch. rast. ot vred. i bol. 9 no.1: 18 '64. (MIRA 17:4)

1. Starshiy agronom po zashchite rasteniy Manturovskogo proizvodstvennogo upravleniya Kostromskoy oblasti.

MASLYAYEV, G. A.

Geology, Stratigraphic

Boundary between the Tertiary and Quarternary periods. Izv. Vaec. geog. otshch., 64, No. 2, 1952.

Monthly List of Eussian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

MASLYAYEV, G.A

USSR/Geology - Geomorphology

Gard 1/1 Pub. 22 - 32/45

Authors : Maslyaev, C. A.

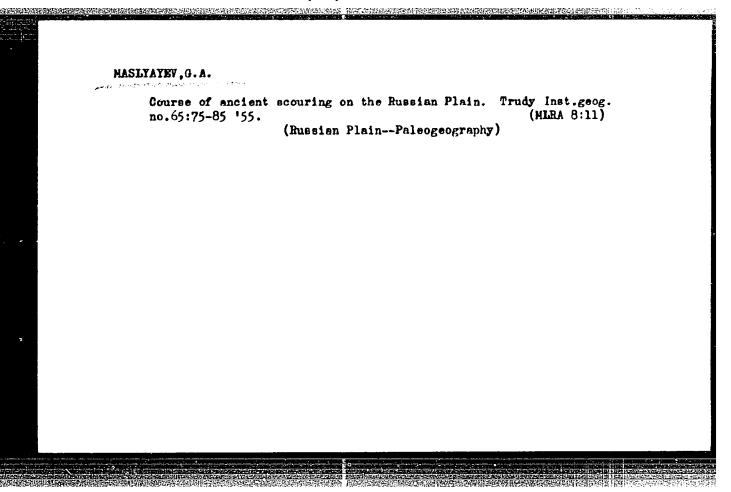
Title : New data on the geomorphology and newest tectonics of southern Ergeney

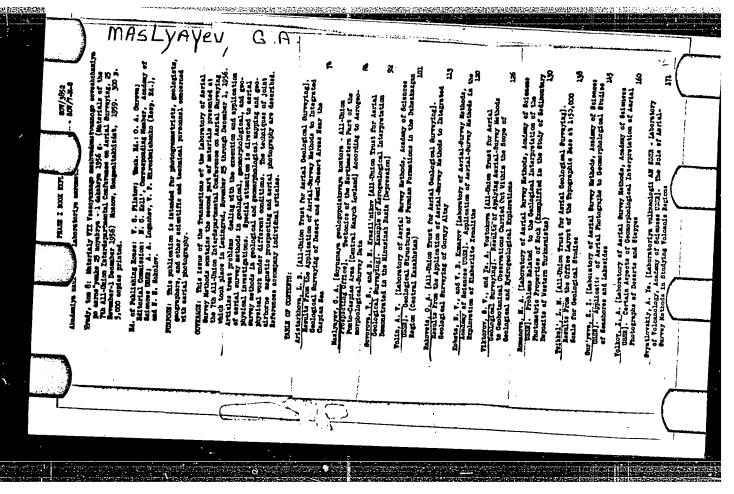
Periodical : Dok. AN SSSR 99/4, 609-612, Dec 1, 1954

Abstract i New geological data regarding the geomorphology and newest tectonics of southern Ergeney are presented. Two USSR references (1947). Drawings.

Institution: Ministry of Petroleum Industry USSR, Geological-Exploratory Office

Presented by: Academician I. P. Gerasimov, July 1, 1954





sov/20-128-2-42/59

3(5) AUTHOR:

Maslyayev, G. A.

TITLE:

New Data on the Likhvin Lake Sediments

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 2, pp 372-374

(USSR)

ABSTRACT:

The sediments mentioned in the title have been known since more than 50 years (N. N. Bogolyubov, Ref 3). In the so-called "lake marls" which also belong to them an abundant flora and fauna was found. V. D. Lebedev (Ref 7) investigated its fish. The age of these sediments was determined as being "not younger than Lower Quaternary" (Refs 1,4-6,13) and Upper Pliocene than Lower Quaternary" (Refs 1,4-6,13) and Upper Pliocene (P. A. Nikitin, Ref 9), respectively. In every investigation new types of died out plants were found. In the Likhvin flora new types of died out plants were found are not found in

25% of such plants or of types which are not found in recent form are known (Refs 1,9,13,et al.). Due to this fact the flora has to be regarded as Pliocene. This conclusion is in agreement with the results of geological and geomorphological investigations by the author in the Oka river valley (Ref 8). Investigations can however not yet be attributed to a definite Pliocene stage due to the flora and the mentioned investiga-

Card 1/2

New Data on the Likhvin Lake Sediments

SOV/20-128-2-42/59

tions. The investigation of the Ostracoda contained in the "lake marl" clarified some problems of the synchronization of the Likhvin sediments with the Pliocene of the South of the Russian plane. The Ostracoda were determined by V. A. Ivanova and A. V. Suzin. These two scientists and A. V. Shveyyer (Ref 14, p 57) classify these types as Akchagyl. Thus the Likhvin sediments must be definitely determined as belonging to the Akchagyl stage of the Pliocene on the basis of the flora and the fauna of fish and Ostracoda. There are 14 Soviet references.

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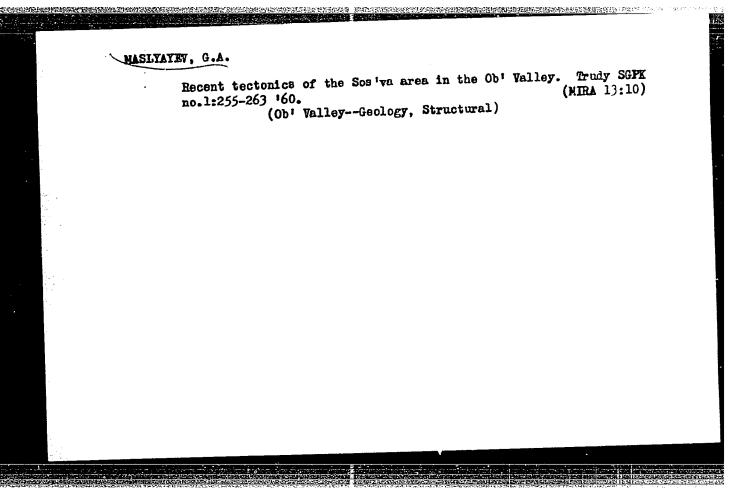
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1. Soyuznaya geologo-poiskovaya kontora.
(Ergeni Hills-Geology, Structural)

# MASLYAYEV, G.A. Repent tectonics of Ciscaucasia. Dokl. AN SSSR 135 no.5:1199-1202 (MIRA 13:12) 1. Predstavleno akademikom I.P. Gerasimovym. (Caucasus, Northern—Geology, Structural)

